

**052-198-3082**  
**Direct Rafting Operations as Raft Commander**  
**Status: Approved**

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**Distribution Restriction:** Approved for public release; distribution is unlimited.

**Destruction Notice:** None

**Foreign Disclosure: FD1** - This training product has been reviewed by the training developers in coordination with the Fort Leonard Wood, MO/Maneuver Support Center foreign disclosure officer. This training product can be used to instruct international military students from all approved countries without restrictions.

**Condition:** Given a ribbon raft with bridge erection boats (BEBs), a designated site, a mission directive, Training Circular (TC) 5-210, and personnel. Some iterations of this task should be performed in MOPP 4.

**Standard:** You will direct the rafting operations (as the raft commander) for a given raft design, without error and without causing injury to yourself and other personnel or damaging the environment or the equipment.

**Special Condition:** None

**Safety Risk:** Low

**MOPP 4:** Sometimes

Task Statements
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**Cue:** Given a mission from higher.

**DANGER**

None

**WARNING**

None

**CAUTION**

None

**Remarks:** None

**Notes:** None

## Performance Steps

### 1. Brief the safety procedures.

- a. Designate a safety boat and ensure that it has the proper personnel and equipment.
- b. Brief the soldiers on crew duties and safety procedures.

### 2. Direct vehicle loading and unloading.

- a. Ensure that vehicle dimensions do not exceed the capabilities of the raft.
- b. Ensure that the raft is secured to the shore with tag lines or approach guys. The thrust of the boats will also be required to prevent raft movement during loading and unloading.
- c. Ensure that all crew members are in position and are prepared to load the raft.
- d. Ensure that the operators of the vehicles to be loaded understand the hand signals that will be used to control the loading of the raft (Figure 052-198-3082-1).

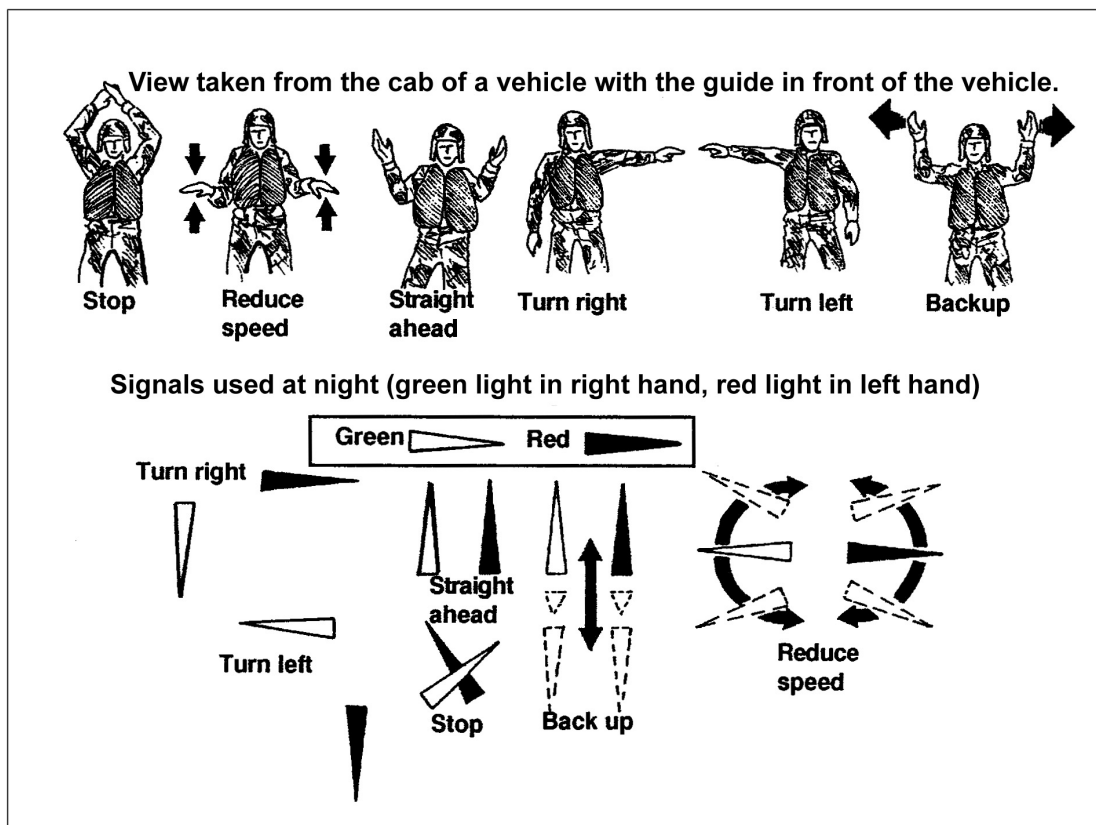


Figure 052-198-3082-1  
Hand Signals for Loading Vehicles

- e. Position the vehicles so that the center of gravity is slightly to the downstream side of the raft centerline and slightly to the rear (shore side) of the raft.
  - f. Ensure when loading more than one vehicle, position the heavier vehicle last (toward the rear of the raft).
  - g. Ensure that vehicles are chocked (front and back of the vehicle) and that the vehicles are left running.
- ### 3. Direct rafting procedures for longitudinal rafting.

Note: Longitudinal rafting cannot be used when the current velocity in the loading and unloading zone areas exceeds 5 feet per second (fps). This method is normally preferred if the conditions are met, since it is faster and allows for more efficient operation.

- a. Position yourself so that you can be observed by the boat operators and you can observe the shoreline.
- b. Apply the standard rafting signals (Figure 052-198-3082-2) to move the raft from the near shore to the far shore (Figure 052-198-3082-3), loading and unloading traffic as necessary.

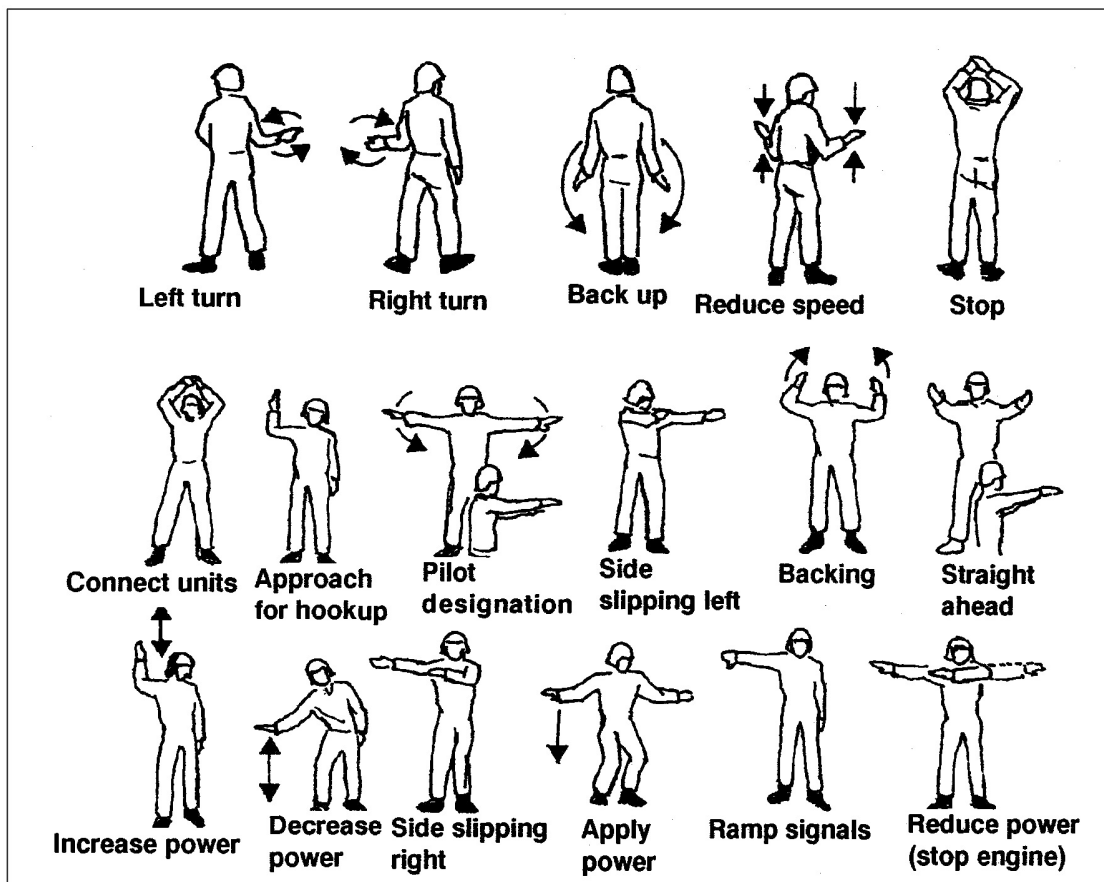


Figure 052-198-3082-2  
Standard Rafting Signals

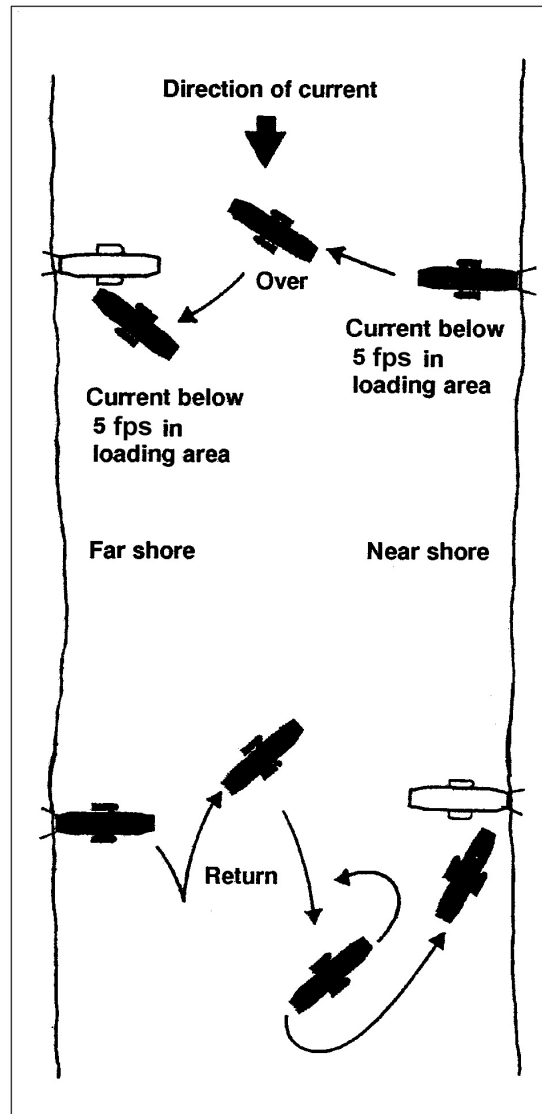


Figure 052-198-3082-3  
Longitudinal Rafting

4. Direct rafting procedures for conventional rafting.

- a. Position yourself so that you can be observed by the boat operators and you can observe the shoreline.
- b. Apply the standard rafting signals (Figure 052-198-3082-2) to move the raft from the near shore to the far shore (Figure 052-198-3082-4), loading and unloading traffic as necessary.

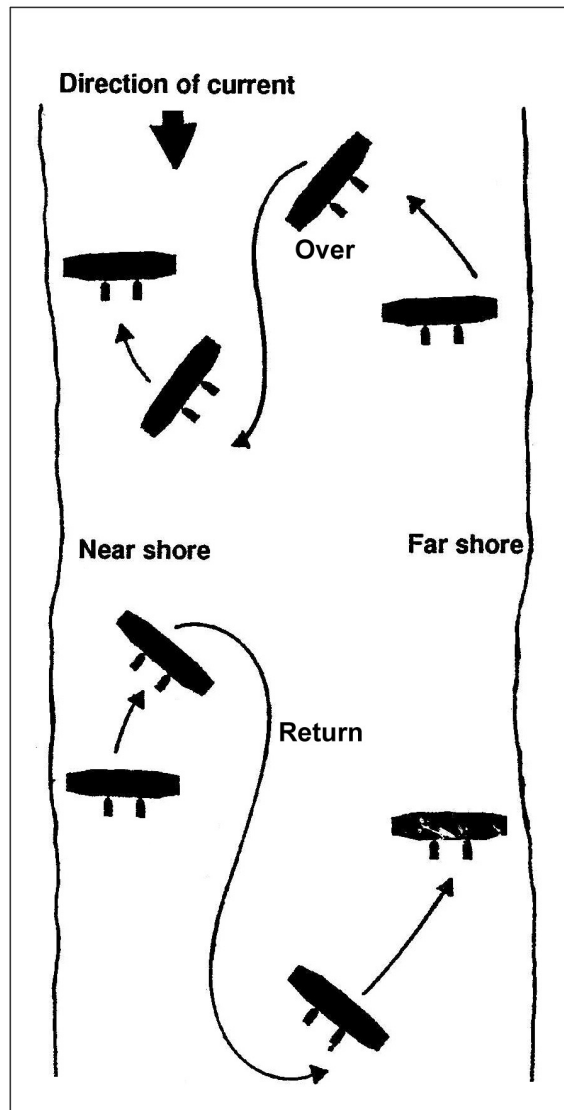


Figure 052-198-3082-4  
Conventional Rafting

5. Check the raft periodically during the rafting operations.

a. Check for leakage. Pontoons should be inspected for leakage at least once every 3 hours during heavy traffic periods.

b. Check for debris buildup. Periodically check for buildup between the bays, and remove as necessary.

c. Check the roadway for holes or debris buildup. Repair or replace the bays as necessary. Clean the roadway as necessary and as the mission permits.

d. Check the ramp cylinder controls for proper operation, and check the fluid level for the pumps. Repair, replace, or fill as necessary.

e. Check the shore for excessive erosion. Inform the crossing site commander if repair by heavy equipment is necessary.

(Asterisks indicates a leader performance step.)

**Evaluation Guidance:** Score the Soldier GO if all performance measures are passed (P). Score the Soldier NO GO if any performance measure is failed (F). If the Soldier scores NO GO, show the Soldier what was done wrong and how to do it correctly.

**Evaluation Preparation:** Setup: Assemble personnel, the required bridge components, and the equipment at the raft building site. Prepare a mission directive.

**Brief Soldier:** Tell the Soldier to direct rafting operations (as a raft commander) for a given raft design IAW Training Circular (TC) 5-210.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Briefed the safety procedures.			
a. Designated a safety boat and ensured that it had the proper personnel and equipment.			
b. Briefed the Soldiers on crew duties and safety procedures.			
2. Directed vehicle loading and unloading.			
a. Ensured that vehicle dimensions did not exceed the capabilities of the raft.			
b. Ensured that the raft was secured to the shore with tag lines or approach guys. The thrust of the boats will also be required to prevent raft movement during loading and unloading.			
c. Ensured that all crew members are in position and are prepared to load the raft.			
d. Ensured that the operators of the vehicles to be loaded understood the hand signals that will be used to control the loading of the raft.			
e. Positioned the vehicles so that the center of gravity was slightly to the downstream side of the raft centerline and slightly to the rear (shore side) of the raft.			
f. Ensured when loading more than one vehicle, positioned the heavier vehicle last (toward the rear of the raft).			
g. Ensured that vehicles were chocked (front and back of the vehicle) and that the vehicles are left running.			
3. Directed rafting procedures for longitudinal rafting.			
a. Positioned yourself so that you could be observed by the boat operators and you could observe the shoreline.			
b. Applied the standard rafting signals to move the raft from the near shore to the far shore loading and unloading traffic as necessary.			
4. Directed rafting procedures for conventional rafting.			
a. Positioned yourself so that you could be observed by the boat operators and you could observe the shoreline.			
b. Applied the standard rafting signals to move the raft from the near shore to the far shore loading and unloading traffic as necessary.			
5. Checked the raft periodically during the rafting operations.			
a. Checked for leakage. Pontoons should be inspected for leakage at least once every 3 hours during heavy traffic periods.			
b. Checked for debris buildup. Periodically checked for buildup between the bays, and removed as necessary.			
c. Checked the roadway for holes or debris buildup. Repaired or replaced the bays as necessary. Cleaned the roadway as necessary and as the mission permitted.			
d. Checked the ramp cylinder controls for proper operation, and checked the fluid level for the pumps. Repaired, replaced, or filled as necessary.			
e. Checked the shore for excessive erosion. Informed the crossing site commander if repaired by heavy equipment was necessary.			

**Supporting Reference(s):**

Step Number	Reference ID	Reference Name	Required	Primary
	TC 5-210	Military Float Bridging Equipment.	Yes	Yes
	TM 5-5420-278-10	OPERATOR;S MANUAL FOR IMPROVED RIBBON BRIDGE (IRB), RAMP BAY M16 (NSN 5420-01-470-5825), P/N 12478918 (EIC: XMT), INTERIOR BAY M17 (NSN 5420-01-470-5824) P/N 12478919 (EIC: XMS)D ON	Yes	No

**TADSS :** None

**Equipment Items (LIN):**

LIN	Name
R10527	RAMP BAY BRIDGE FLOAT
B25476	Boat Bridge Erection Inboard Engine: Shallow Draft
K97376	BRIDGE FLOATING

**Materiel Items (NSN) :**

Step ID	NSN	LIN	Title	Qty
No materiel items specified				

**Environment:** Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to the current Environmental Considerations manual and the current GTA Environmental-related Risk Assessment card. Environmental protection is a continual process. Always be alert to ways to protect our environment and reduce waste.

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with ATP 5-19, Risk Management. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination. Everyone is responsible for safety. A thorough risk assessment must be completed prior to every mission or operation.

**Prerequisite Individual Tasks :**

Task Number	Title	Proponent	Status
052-198-3081	Direct Assembly of a Ribbon Bridge Raft	052 - Engineer (Individual)	Approved
052-198-3075	Direct Assembly of a Ribbon Bridge	052 - Engineer (Individual)	Approved

**Supporting Individual Tasks :**

Task Number	Title	Proponent	Status
052-198-1206	Perform Rafting Operations using Conventional Method	052 - Engineer (Individual)	Approved
052-198-1207	Perform Rafting Operations using Longitudinal Method	052 - Engineer (Individual)	Approved
052-198-1202	Operate the Bridge Erection Boat	052 - Engineer (Individual)	Approved
052-198-4103	Determine Float Bridge Protective Devices	052 - Engineer (Individual)	Approved

**Supported Individual Tasks :** None



**Supported Collective Tasks :**

<b>Task Number</b>	<b>Title</b>	<b>Proponent</b>	<b>Status</b>
05-3-1028	Conduct Rafting Operations	05 - Engineers (Collective)	Approved
05-3-1027	Construct a Ribbon Raft	05 - Engineers (Collective)	Approved

**ICTL Data :**

<b>ICTL Title</b>	<b>Personnel Type</b>	<b>MOS Data</b>
12C30, Bridge Crewmember, skill level 3	Enlisted	MOS: 12C, Skill Level: SL3
Created Ictl from: 12C30, Bridge Crewmember, skill level 3	Enlisted	MOS: 12C, Skill Level: SL3